WHAT IS CLAIMED IS:

1. A multi-I/O-port-41-channel connector comprising:

a first connector having a front end extending forwards to form a female coupling, in which a central portion of a front edge at a top end of the female coupling is dug away to form a mortise, and a plurality of plugholes is provided with respective lead wires for signal transmission; and

a second connector having a front end extending forwards to form a male coupling, in which a plurality of lead wires for signal transmission is provided and extending outwardly to form a plurality of connecting pins;

where the plughole and the pin both have a number of forty one and are aligned zigzag in horizontal rows; the outer fringe of the female coupling in the first connector and the corresponding inner fringe in the mouth of the male coupling of the second connector forming a tight sleeve-joint mechanism, at the top end of the male coupling of the second connector, a recess extending forwards to form a receptacle and a through hole for accommodating a fastening device, in the fastening device, a fixing portion at one end is fixed in the receptacle and extending outwardly to reach the inner space of the male coupling and form a resilient extension arm; a pushbutton is fixedly disposed on the top end of the extension arm, and the fore end of the extension arm is located right under the through hole and extending upwardly to form a wedge-style tenon with an outward slope, when the pushbutton is depressed, the extension arm bent downwardly to sink the tenon under the through hole, and when these two connectors are butt-jointed, the tenon is engaged in the mortise.

2. The multi-I/O-port-41-channel connector according to Claim **1**, wherein the plugholes and connecting pins are aligned zigzag in horizontal rows in respective arrays on one-to-one basis.

3. The multi-I/O-port-41-channel connector according to Claim **1**, wherein a plurality of spring leaves is fixedly disposed on the inner wall of the male coupling for tightening the connection of the couplings.